

EMPOWERING



SOLAR EFFICIENCY

COATED GLASS

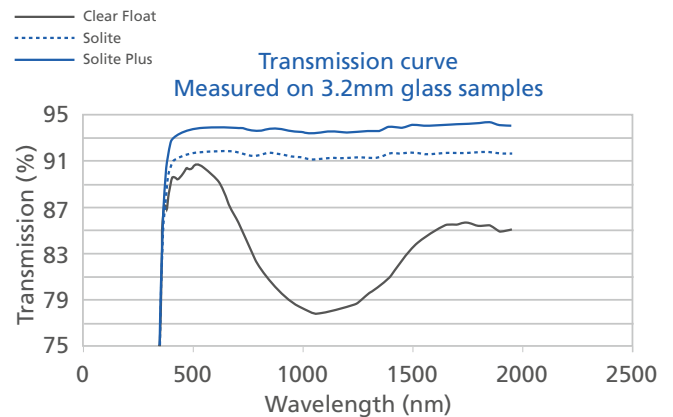
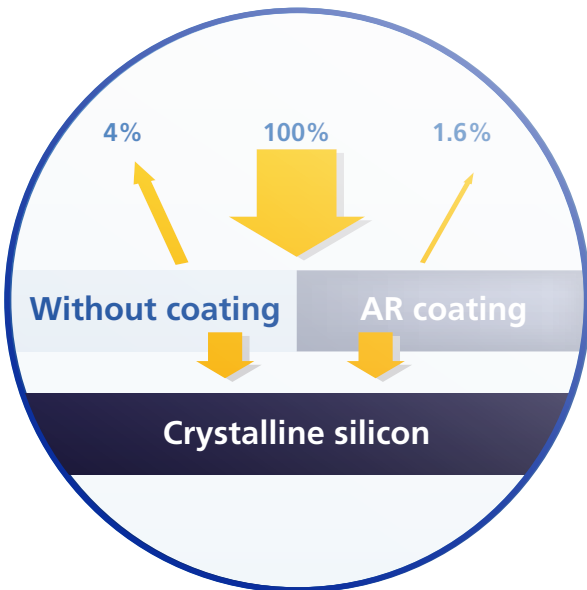
# SPARC COATING

SOLAR PLUS ANTI-REFLECTIVE COATING (SPARC)

SPARC is an anti-reflective coating especially developed for solar applications, and more particularly for photovoltaic applications. SPARC is a single-side coating deposited on extra clear patterned glasses Solite and Solatex™ during the tempering process. Being single-sided, SPARC minimizes the reflection at the glass/air interface without affecting the excellent adhesion between the glass and the interlayer used in laminating photovoltaic modules. Being deposited online with the tempering process, it also ensures an optimal durability and an excellent aesthetics.

## PRODUCT DESCRIPTION

Type	Anti-reflective coating (single side) Available as Solite Plus® and Solatex Plus®
Applications	Cover glass for photovoltaic modules (crystalline or CIGS) Cover glass for thermal collectors



AGC Solar has a long history as a key player in the solar glass business. As part of the world leader in glass production, it benefits from the latest glass technologies to make renewable energy a success. It offers glass solutions for photovoltaic modules, thermal collectors and concentrating solar mirrors. It aims for the highest production standards for increased performance and works through a worldwide network.

## MAIN CHARACTERISTICS \*

Transmission increase (%)	Up to 2.4%	At normal incidence
Energy output increase (%)	Up to 5%	In actual conditions (kwh)
Aesthetics	Neutral reflectance	
	Hydrophilic	

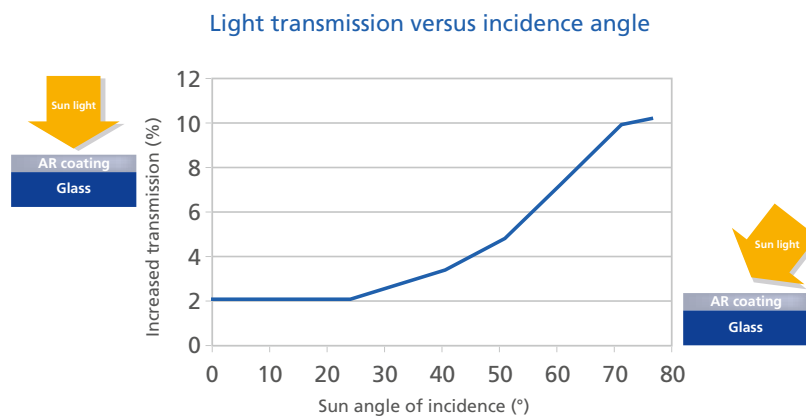
AGC can help evaluating these values according to other standards and/or to the specificities of the final application.

## DURABILITY TESTS\*

Damped heat	Passed	IEC 61215
Thermal cycle	Passed	IEC 61215
Climatic SO2	Passed	EN1096-2 (DIN 50018)
Salt spray	Passed	EN1096-2 (DIN 50021)
Mechanical resistance	Passed	EN 1096-2

## Transmission increase vs Energy output increase

While SPARC increases the transmission by up to 2.4% at normal incidence, the anti-reflective property of SPARC (measured by comparing a coated and an uncoated glass) is significantly increased when the angle of incidence of the sunlight is increased (i.e. from high sun to low sun), as can be seen on the graph. When taking into account the angle of incidence of the sunlight over the days, months and years, this eventually translates into up to 5% of energy output increase in actual conditions.



AGC is committed to environmental stewardship through the use of recyclable materials and sustainable process in the manufacturing and distribution of our state-of-the-art, energy efficient flat glass products.

In North America, the product performs to the appropriate ASTM standards.

\*The information contained in this datasheet is intended to assist you in designing with AGC materials. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose. The user is responsible for determining the suitability of AGC materials for each applications.

## FOR MORE INFORMATION

Worldwide: [sales@agc-solar.com](mailto:sales@agc-solar.com)

Europe: [sales.europe@eu.agc-solar.com](mailto:sales.europe@eu.agc-solar.com)

North America: [sales.northamerica@na.agc-solar.com](mailto:sales.northamerica@na.agc-solar.com)

Japan: [sales.japan@jp.agc-solar.com](mailto:sales.japan@jp.agc-solar.com)

China: [sales.china@jp.agc-solar.com](mailto:sales.china@jp.agc-solar.com)

Asia: [sales.asia@jp.agc-solar.com](mailto:sales.asia@jp.agc-solar.com)

India: [ssheikh@aisglass.com](mailto:ssheikh@aisglass.com)

[www.agc-solar.com](http://www.agc-solar.com)

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